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We Claim:

5	1.	A composition comprising an adenoviral vector, wherein said adenoviral
	vector comprises:	

- a) an adenoviral capsid, wherein said adenoviral capsid comprises subgroup B adenoviral capsid fibers selected from the group consisting of Ad11, Ad14, Ad16, Ad21, Ad34, Ad35, and Ad50; and
- b) a nucleic acid molecule, wherein said nucleic acid molecule comprises a retrogen cassette sequence encoding a retrogen protein, wherein said retrogen protein comprises;
 - i) an antigen protein,
 - ii) a leader sequence linked to the N-terminal of said antigen protein, and
 - iii) a cell-binding domain linked to the C-terminal of said antigen protein.
- 2. The composition of Claim 1, wherein said adenoviral capsid fibers are Ad11 20 fibers.
 - 3. The composition of Claim 1, wherein said antigen protein is a tumor associated antigen.
- 25 4. The composition of Claim 1, wherein said antigen protein is HBeAg.
 - 5. The composition of Claim 1, further comprising dendritic cells.
- 6. The composition of Claim 1, wherein said composition further comprises a dendritic cell, and wherein said adenoviral vector is inside said dendritic cell.

WO 03/093455 PCT/US03/13560

7. A method comprising;

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- a) providing;
 - i) dendritic cells, and
- ii) a composition comprising an adenoviral vector, wherein said adenoviral vector comprises:
 - A) an adenoviral capsid, wherein said adenoviral capsid comprises subgroup B adenoviral capsid fibers selected from the group consisting of Ad11, Ad14, Ad16, Ad21, Ad34, Ad35, and Ad50; and
 - B) a nucleic acid molecule, wherein said nucleic acid molecule comprises a retrogen cassette sequence encoding a retrogen protein, wherein said retrogen protein comprises;
 - I) an antigen protein,
 - II) a leader sequence linked to the N-terminal of said antigen protein, and
 - III) a cell-binding domain linked to the C-terminal of said antigen protein; and
- b) contacting said dendritic cells with said composition at a MOI of at least 5 under conditions such that said retrogen protein is expressed by at least 30% of said dendritic cells thereby generating retrogen-expressing dendritic cells, wherein said antigen protein is presented by said retrogen-expressing dendritic cells as a MHC class-I antigen and a MHC class-II antigen.
- 8. The method of Claim 7, wherein said retrogen protein is expressed by at least 25 35% of said dendritic cells when said contacting is conducted at a MOI of 5-10.
 - 9. The method of Claim 7, wherein said retrogen protein is expressed by at least 70% of said dendritic cells when said contacting is conducted at a MOI of 10-100.
 - 10. The composition of Claim 7, wherein said contacting occurs ex vivo.
 - 11. The method of Claim 7, wherein said adenoviral capsid fibers are Ad11 fibers.

WO 03/093455 PCT/US03/13560

12. The method of Claim 7, wherein said antigen protein is a tumor associated antigen.

- 13. The method of Claim 7, wherein said antigen protein is HBeAg.
- 14. The method of Claim 7, further comprising step c) administering said retrogen-expressing dendritic cells to a patient.
- 15. The method of Claim 14, wherein said pateint has HBV-associatedhepatocellular carcinoma or HBV infection.
 - 16. A method comprising;

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- a) providing;
 - i) dendritic cells, and
- ii) a composition comprising an adenoviral vector, wherein said adenoviral vector comprises:
 - A) an adenoviral capsid, wherein said adenoviral capsid comprises Ad11 capsid fibers; and
 - B) a nucleic acid molecule, wherein said nucleic acid molecule comprises a transgene sequence encoding a protein of interest; and
 - b) contacting said dendritic cells with said composition at a MOI of at least 5 under conditions such that said protein of interest is expressed by at least 55% of said dendritic cells thereby generating protein of interest-expressing dendritic cells.
 - 17. The method of Claim 16, wherein the contacting causes said dendritic cells to pass from an immature state to a mature state.
- 30 18. The method of Claim 16, wherein said protein of interest is expressed by at least 70% of said dendritic cells when said contacting is conducted at a MOI of 10-100.
 - 19. The method of Claim 16, wherein said protein of interest is expressed by at least 90% of said dendritic cells when said contacting is conducted at a MOI of 100-500.

WO 03/093455 PCT/US03/13560

20. The method of Claim 16, wherein said contacting occurs ex vivo.

- 21. The method of Claim 16, wherein said protein of interest is HBeAg.
- 22. The method of Claim 16, further comprising step c) administering said protein of interest-expressing dendritic cells to a subject.
- 23. The method of Claim 22, wherein said subject has HBV-associated hepatocellular carcinoma or HBV infection.

5